

□ □ □ □ □ □ □ □ □ □ □ □

□ □ □ □ □ □

□□□□






[illegible][illegible][illegible][illegible][illegible]

Universal Approximation Theorem

Nash Embedding Theorems

Word-embedding Vector Space

AlphaGo SAE level 4 Turing Test

Deepmind  Reward Is Enough  reward  reward  reward 

```

#####critique#####
#####
#####
#####

```

□ □ □ □ □ □ □ □ □ □

critique criticus κριτικός critical judgement

□ □ □ □ □ □ □ □ □ □ □ □ □

conjecture Grigori Perelman Poincaré conjecture

conjecture conjecture conjecture AlphaGo AlphaGo

“”

Demis Hassabis a meta-solution to any problem

A B C D

A. □□□□□□□□□□

1.
2.
3. Chaitin's constant
4.
5. 1 - 4

B. □□□□□□□□□□

6. 相关性理论 (relevance theory) 如何解释语言理解中的推理过程?
7. 如何解释语言理解中的推理过程?
8. Grigori Perelman 证明 Poincaré conjecture 如何解释语言理解中的推理过程?
9. Demis Hassabis 证明 AlphaGo 如何解释语言理解中的推理过程? Demis Hassabis 证明 AlphaGo 如何解释语言理解中的推理过程? a meta-solution to any problem?
10. AlphaGo 如何解释语言理解中的推理过程? superhuman performance 如何解释语言理解中的推理过程?

C. □□□□□□□□□□□□□□□□

- [illegible]

17. selfish gene

18.

20. “Logical positivism” and “logical empiricism” are two names for the same thing.
 □ logical positivism □ logical empiricism

22. □□ Turing Test □□□□□□□□□□□□□□□□ SAE level 4 □ level 5 □□□□□□□□
□□□□□□□□□□□□□□□□□□

23. word-embedding vector space □ encoder-decoder, attention, transformer, BERT

24. ☐ deep-learning ☐ deep residual networks ☐ generative adversarial networks, etc.

25. Universal Approximation Theorem overfitting underfitting chaos phenomena

26.
 selfish gene



27.






[illegible][illegible]






exact Demis Hassabis a meta-solution to any problem






Freeman Dyson






[illegible][illegible][illegible][illegible]






Demis Hassabis AlphaGo  AlphaGo 






    






    






    






    






    






    






    






    






    






    






    






    






    



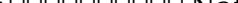


    






    



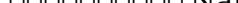


    



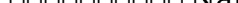


    



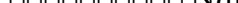


    



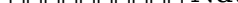


    



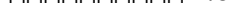


    






    

AlphaGo AlphaGo Master Nature

Fight-or-flight
 AlphaGo Zero retire fight-or-flight

SAE level 5 SAE level 4

[illegible]

□ □

[illegible]

The Selfish Gene

[illegible]

Freeman 0000 frog0000 Birds and Frogs 0000 bird 0000000000Freeman 0000000000
0000 bird 0000000000 frog 0000000000 bird 00000000000 Freeman 0000000000000000

[illegible]

common core
global picture

1. **Common Core**

[illegible]